

Zsofia Szendrei

Postdoctoral Research Associate

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Insect Biocontrol Laboratory

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EDUCATION**Ph.D. in Entomology** 2001 – 2005***Michigan State University, East Lansing, MI***Thesis: "Potential for behavioral and cultural manipulation of Japanese beetle (*Popillia japonica* Newman, Coleoptera: Scarabaeidae)" populations.**M.S. in Horticulture** 1996 - 2001***Saint Stephen University, Budapest, Hungary***Thesis: "Physiological and biochemical basis of cold hardiness in peaches (*Persica vulgaris*)" [in Hungarian].

RESEARCH EMPLOYMENT**Post-Doctoral Research Associate with Dr. Donald C. Weber** Sep. 2005-present
USDA-ARS, Insect Biocontrol Laboratory, Beltsville, MDDirect and indirect effects of cover crops as companion plants in potato production on Colorado potato beetle (Coleoptera: Chrysomelidae) behavior and biocontrol. Behavioral ecology of *Lebia grandis* (Coleoptera: Carabidae: Lebiini): host location in first instars and adults.**Post-Doctoral Research Associate with Dr. Rufus Isaacs** June-Aug. 2005***Michigan State University, East Lansing, MI***

Ovipositional behavior of Japanese beetle in laboratory bioassays. Distribution of Japanese beetle in different types of habitats: mark-release-recapture studies.

Graduate Research Assistant with Dr. Rufus Isaacs 2001 - 2005***Michigan State University, East Lansing, MI***

Field and laboratory studies on Japanese beetle larval and adult biology. Photography of insect collections.

Visiting Ph.D. Student with Dr. Marcel Dicke Oct 2002 – Mar 2003***Laboratory of Entomology, Wageningen University, The Netherlands***Research in tritrophic interactions (*Brassica* sp., *Pieris brassicae*, *Cotesia glomerata*). Perform experiments in greenhouse, windtunnel bioassays, headspace collection and analysis on GC**Visiting Research Assistant with Dr. Rufus Isaacs** Apr - Dec 2000***Small Fruit Entomology Laboratory, Michigan State University***

Cranberry fruit worm biology, rearing of grape berry moth biological control agents, pheromone component analysis on GC, insecticide resistance studies.

TEACHING EXPERIENCE***Michigan State University, East Lansing, MI***

- **Outreach Program** - working with elementary school students 2004 - 2005
- **Teaching Assistant** Systematics, Biology and Morphology of Adult Insects (ENT818), Insect-Plant Interactions (ENT812) 2003 - 2004

Budapest, Hungary

- **Professor** English as a foreign language 2001
- **Translator, interpreter** International League for the Protection of Horses 2000

RESEARCH PUBLICATIONS

- **Szendrei, Z.** and Isaacs R. (2006) Ground covers influence the abundance and behavior of Japanese beetle. *Environmental Entomology* (accepted).
- **Szendrei, Z.** and Isaacs R. (2006) Survey of Japanese beetle management practices in Michigan highbush blueberry production. *HortTechnology* Jan. – March 16(1): 83-88.
- **Szendrei, Z.** and Isaacs R. (2005) Do plant cues influence the oviposition behavior of Japanese beetle? *Entomologia Experimentalis et Applicata* 165: 165-174.
- **Szendrei, Z.**, Mallampalli, N., and Isaacs, R. (2005) Effect of cultivation on abundance of Japanese beetle, *Popillia japonica* Newman (Coleoptera: Scarabaeidae), in highbush blueberry fields. *Journal of Applied Entomology* 129(5): 258-264.
- O'Neal, M.E., Zontek, E.L., **Szendrei, Z.**, Landis, D.A., and Isaacs, R. (2005) Ground predator abundance affects prey removal in highbush blueberry (*Vaccinium corymbosum*) fields and can be altered by aisle ground covers. *BioControl* 50: 205-222.
- Isaacs, R., **Szendrei, Z.**, and Wise, J.C. (2004) Evaluation of new approaches for the management of Japanese beetle in highbush blueberries. *Proceedings of the North American Blueberry Research and Extension Workers Conference*. Eds. C. Forney and L. Eaton. The Hawthorn Press Inc., New York, pp. 349-360.
- Isaacs, R., **Szendrei, Z.**, and Wise, J.C. (2004) Evaluation of new approaches for management of Japanese beetles in highbush blueberries. *Small Fruits Review* 3: 349-360.
- Isaacs, R., O'Neal, M.E., **Szendrei, Z.**, Tuell, J. (2004) Potential of ground covers for manipulating pest, predator, and pollinator populations in highbush blueberry. *OIBC/WPRS Bulletin* 27: 17-24.

EXTENSION PUBLICATIONS

- Isaacs, R., **Szendrei, Z.**, and Wise, J. (2003) Japanese beetle. Michigan State University Extension Blueberry Facts Bulletin E-2845. 4 pp.
- **Szendrei, Z.**, and Isaacs, R. (2004) Survey of Japanese beetle management methods in Michigan blueberry. Report sent to 99 Michigan blueberry growers.

RESEARCH PRESENTATIONS

- **Z. Szendrei** and R. Isaacs. Developing a blueberry IPM program to address critical insect pest management issues. CSREES - USDA awardee workshop on biologically-based pest management. 53rd Annual Meeting of the Entomological Society of America, Fort Lauderdale, FL, USA. December 14, 2005. Talk.
 - **Z. Szendrei** and R. Isaacs. Measuring the cost of invasion: The case of the Japanese beetle in Michigan blueberry. Invasive Species Symposium, Michigan State University, East Lansing, MI, USA, May 13, 2005. **First Prize**. Poster.
 - **Z. Szendrei** and R. Isaacs. The role of biotic environmental cues in the oviposition behavior of the Japanese beetle (*Popillia japonica*, Coleoptera: Scarabaeidae). 52nd Annual Meeting of the Entomological Society of America, Salt Lake City, UT, USA,
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November 2004. Talk.

- **Z. Szendrei** and R. Isaacs. Effect of cultural practices on the oviposition behavior of the Japanese beetle (*Popillia japonica*, Coleoptera: Scarabaeidae). 51st Annual Meeting of the Entomological Society of America, Cincinnati, OH, USA, October 2003. Talk.
- R. Isaacs, M. O'Neal, **Z. Szendrei**, , and J. Tuell. Potential of ground covers for manipulating pest, predator, and pollinator populations in highbush blueberry. IOBC Soft Fruits Working Group Meeting, Nyon, Switzerland. October 11, 2003. Talk.
- R. Isaacs, **Z. Szendrei**, K.S. Mason, and J.C Wise. Sustainable approaches to Japanese beetle management in blueberry. Annual meeting of the Entomology Society of America, Fort Lauderdale, FL. November 17-20, 2002. Talk.
- R. Isaacs, **Z. Szendrei**, and J.C. Wise. Evaluation of new approaches for management of Japanese beetles in highbush blueberries. 9th North American Blueberry Research and Extension Workers Conference, Halifax, NS, Canada, August 18-21, 2002. Talk.
- **Z. Szendrei**, N. Mallampalli, and R. Isaacs. Effect of cultural practices on Japanese beetle in Michigan blueberries. 57th Annual Meeting of the North Central Branch of the Entomological Society of America, East Lansing, Michigan, USA, March 10, 2002. **First Place** (Category: Submitted Posters by Doctoral Students). Poster.
- **Z. Szendrei**, N. Mallampalli, and R. Isaacs. Effect of cultural practices on Japanese beetle in Michigan blueberries. Michigan Academy of Science, Arts and Letters, 2002 Annual Meetings, Central Michigan University, Mount Pleasant, MI, USA, March 8, 2002. Talk.
- **Z. Szendrei**, N. Mallampalli, and R. Isaacs. Effect of cultural practices on Japanese beetle in Michigan blueberries. 49th Annual Meeting of the Entomological Society of America, San Diego, California, USA, November, 2001. Poster. **First Prize**. Poster.
- K. Mason, **Z. Szendrei**, J. Miller, and R. Isaacs. Comparison of mating disruption technologies for control of the Grape berry moth, *Endopiza viteana*. 48th Annual Meeting of the Entomological Society of America, Montreal, Canada, 2000. Poster.
- R. Isaacs, J. Wise, N. Mallampalli, and **Z. Szendrei**. Biology and Management of Fruitworms in Michigan Blueberries. Michigan Horticultural Society Meeting, Grand Rapids, Michigan, USA, December, 2000. Poster.
- R. Isaacs, K. Mason, N. Botero-Garcés, **Z. Szendrei**, C. Edson, and M. Longstroth. Developing an IPM program for grape berry moth in Michigan vineyards. Michigan Horticultural Society Meeting, Grand Rapids, Michigan, USA, December, 2000. Poster.

EXTENSION PRESENTATIONS

- **Z. Szendrei** and R. Isaacs. *Survey of Japanese beetle management methods*. Horticulture Conference, Michigan Blueberry Growers' Marketing. Holland, Michigan. March 25, 2004.
- **Z. Szendrei**. *Sampling methods for Japanese beetle larvae*. MSU Blueberry Intergrated Pest Management Scout Training Program. Trevor Nichols Research Complex, Fennville, MI, May 2003.
- **Z. Szendrei**. *Effect of cover crops on Japanese beetle*. Spring blueberry grower meeting. Trevor Nichols Research Complex, Fennville, MI. June 20, 2002.
- K. Mason and **Z. Szendrei**. Field Day. Small fruit research update. Trevor Nichols Research Complex, Fennville, MI. September 20, 2001.

RESEARCH GRANTS

- Behavioral manipulation of Japanese beetle egg laying to reduce its impact on Michigan agriculture. Isaacs, R., **Szendrei, Z.**, Zhou, L., (2004) Project GREEN. \$32,190.
 - Integrating cover crops into blueberry production for sustainable Japanese beetle control. **Szendrei, Z.**, Isaacs, R. (2002). North Central Region USDA-SARE. \$10,000.
 - Integrating cover crops into blueberry production for sustainable Japanese beetle
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control. **Szendrei, Z.** (2002). Hutson Awards for Graduate Research, Department of Entomology, MSU. \$1,200.

GRANTS AND FELLOWSHIPS

- Graduate Office Fellowship Travel Fund, MSU, \$150.
 - Department of Entomology, MSU, Hutson International Travel Grant, \$600.
 - College of Agriculture and Natural Resources, MSU, International Travel Fund, \$500.
 - Institute of International Agriculture, MSU, Travel Grant, \$250.
 - Council of Graduate Students, MSU, Degree Completion Grant, \$200.
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ADDITIONAL COURSES AND EVENTS ATTENDED

- Insect Outbreak, Utah State University, Logan, Utah, November 18, 2004.
 - Mapping the possibilities: Leveraging geospatial technology for your research. Learning the fundamentals of GIS, Remote Sensing, GPS, and map design. Michigan State University, East Lansing, MI, April 20, 2005.
 - Introduction to Photographic Technology, Lansing Community College, Lansing, MI, Summer course, 2003.
 - Doctoral Student Workshop on "Navigating the Ph.D.: Working with Committees, Writing, Revision, The Defense" led by T. Hicks. Michigan State University, East Lansing, MI, November 2003.
 - Circadian rhythms and biological clocks in plants. 'Time is ticking'; Wageningen, The Netherlands, March 2003.
 - Spatial Ecology Symposium. Wageningen, The Netherlands, November 2002.
 - Cover Crops Workshop. Kellogg Center, East Lansing, MI. March 20, 2002.
 - Dreamweaver 4 – Fundamentals (DM4100), Michigan State University, Lansing, MI, Summer 2002.
 - 11th Annual Viticulture Field Day, August 2, 2000, Southwest Michigan Research and Extension Center, Berrien County, MI.
 - Northwest Research Station Open House (Viticulture), August 31, 2000, Northwest Michigan Horticultural Experimental Station, Traverse City, MI.
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WEBSITE DEVELOPMENT

- Insect-Plant Interactions class website - www.cips.msu.edu/sfe/ENT812/ENT812.htm. Provided students of Insect-Plant Interactions graduate seminar (ENT 812, 9 students) with information on the scheduled readings, guest speakers and events throughout the class. Taught by Dr. R. Isaacs. Fall 2003.
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MEMBERSHIPS

- Entomological Society of America 2000-present
 - Michigan Entomological Society 2001-2004
 - Ecological Society of America 2005-present
 - Sigma Xi 2005-present
 - National Postdoctoral Association 2005-present
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